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DIALOG(R) File 351:Derwent WPI

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Photocurable resin compositions - contain white pigment,  
radical-generating cpd. and curable polymer or oligomer contg.  
(meth)acryloyl

Patent Assignee: SHOWA HIGH POLYMER KK (SHOP )

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 63152603	A	19880625	JP 86298848	A	19861217	198831 B
JP 93080921	B	19931110	JP 86298848	A	19861217	199348

Priority Applications (No Type Date): JP 86298848 A 19861217

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 63152603	A		9		
JP 93080921	B		8	C08F-002/48	Based on patent JP 63152603

Abstract (Basic): JP 63152603 A

Photocurable resin compsns. contain (A) curable polymer or oligomer having at least one (meth)acryloyl in a molk., (B) white pigment and (C) radical-generating cpd. having decompn. temp. of half-life (10 hrs) of 60 deg. C or less.

Component (A) is selected from vinylester resin (epoxy-(meth)acrylate), polyurethane-(meth)acrylate, polyester-(meth)acrylate and spiroacetal-(meth)acrylate having mol. wt. of 200-200,000, pref. 500-100,000. As the component (B), titanium dioxide is used pref. at ratio of 5-100 pts. (by wt.) to 100 pts. (A). As component (C), azo cpd. such as 2,2'-azobis(4-methoxy -2,4-dimethylvaleronitrile) (temp. of half-like: 30 deg. C) or 2,2'-azobis(2,4-dimethylvaleronitrile) (51 deg. C) or organic peroxide such as acetylcyclohexyl-sulphonylperoxide (26.5 deg. C) or bis(4-t-butylcyclohexyl) peroxydicarbonate (44 deg. C) is used at the quantity of 0.03-5 pts., pref. 0.1-2 pts. to 100 pts. (A).

USE/ADVANTAGE - The resin compsns. have good whiteness degree and photocurability in spite of the existence of white pigment such as titanium dioxide and are useful as white coatings or ink.

Derwent Class: A14; A82; G02

International Patent Class (Main): C08F-002/48

International Patent Class (Additional): C08F-002/44; C09D-005/00; C09D-133/00; C09D-167/07; C09D-175/04

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